

What is claimed is:

1. A spring connector for an electronic equipment comprising:

5 a case made of insulating material and having a space formed therein;

conductive films formed on an inner surface of the case, on an outer surface of the case, so as to electrically connect the inner surface and the outer surface of the case;

a coil spring provided in the space of the case;

10 a plunger made of metal and axially slidably mounted in the space, and having a space therein in which a part of the coil spring is inserted so that the plunger is outwardly urged by the coil spring; and

15 a lid member attached to the case and having an opening through which the plunger is projected.

2. The spring connector according to claim 1 wherein the inner space of the case has an inclined bottom.

3. The spring connector according to claim 1 wherein the plunger has a flange at a lower portion, the flange is  
20 slidably engaged with the inside wall of the space of the case, the lid member is engaged with the flange.

4. The spring connector according to claim 1 wherein at least one end of the coil spring is different from an intermediate portion in diameter.

25 5. The spring connector according to claim 1 wherein the lid member is attached to the case by applying the means such as ultrasonic adhesion, heat caulking, adhesive sheet, or adhesive paste.

6. A method for manufacturing a spring connector comprising the steps of:

5 molding a case aggregation comprising a plurality of cases in insulating material, each of the case having an inner space;

molding a lid aggregation comprising a plurality of lids in insulating material, each lid having an opening;

10 forming conductive films on each of the cases so as to electrically connect an inner surface of the case and the outer surface of the case;

inserting a coil spring and a plunger in each space of the case;

securing the lid aggregation to the upper surface of the case aggregation;

15 cutting the case aggregation and the lid aggregation to divide each spring connector.

7. The method for manufacturing a spring connector according to claim 6 further comprising forming a cylindrical hole at an intersection of two cutting lines for each four cases, so that an arcuated recess is formed at each corner of the case by cutting the case aggregation along the cutting lines, the conductive film is formed on the arcuated recess.

8. A method for manufacturing a spring connector comprising the steps of:

25 molding a case aggregation comprising a plurality of cases in insulating material, each of the case having a cylindrical space;

molding a lid aggregation comprising a plurality of

lids in insulating material, each lid having an opening;  
forming conductive films on each of the cases so as  
to electrically connect an inner surface of the case and the  
outer surface of the case;  
5 inserting a coil spring and a plunger in each space  
of the case;  
cutting the case aggregation and the lid aggregation  
into individual main parts and into individual lids;  
making an assembling jig having a plurality of  
10 recesses for mounting the main parts;  
mounting each of the main parts in the recess of the  
assembling jig; and  
securing each of the lids to the upper surface of the  
case.  
15